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54 Control of a central heating system.

The present invention relates to the control of a central heating system.

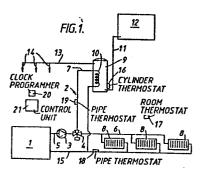
The system includes a condensing boiler 1, a pump 3 operable to pump hot flow water leaving the boiler 1 around a circuit having two branches 6 and 7 and an electrically operated diverter valve 4 operable to direct the flow water to flow into one or other of the branches.

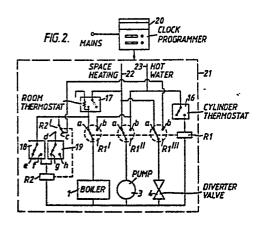
The branch 6 includes radiators 8 to provide space heating by release of heat from the flow water and the branch 7 includes a calorifier 10 for heating water stored in a cylinder 9.

The control unit includes a cylinder thermostat 16, a room thermostat 17 and two pipe thermostats 18 and 19. The thermostat 18 is mounted on the pipework in the space heating branch 6 downstream of the radiators 8 and the thermostat 19 is mounted on the pipework in the hot water branch 7 upstream of the cylinder 9.

When both hot water and space heating are required the boiler is operated and hot water is directed by the valve 4 to flow into the space heating branch 6 until the water reaches a preset level at the point where the thermostat 18 is mounted. At this stage the thermostat 18 switches from position e to f and the valve 4 directs the water to flow into the hot water branch 7. When the water temperature reaches a higher preset level at the point where the thermostat 19 is mounted it switches from position g to h. If thermostat 18 has switched

back to position e because the temperature of the water at the thermostat 18 has fallen to below its preset level, the valve 4 directs the water to flow into the branch 6. The process is then repeated.







EUROPEAN SEARCH REPORT

0146264 Application number

EP 84 30 7939

DOCUMENTS CONSIDERED TO BE RELEVANT				
ategory	Citation of document wi of rele	th indication, where appropriate, vant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Ci 4)
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